

2005 Annual Report

Door County Sanitarian's Department

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INTRODUCTION TO DOOR COUNTY SANITARIAN'S DEPARTMENT ANNUAL REPORT FOR 2005

In 2005, the end of a ten-year survey, requested by the Town of Washington for all private on-site waste treatment systems (POWTS), came to an end. All of the existing failing POWTS were replaced prior to January 1, 2006. This was a project that took great strides to protect the environmental health, groundwater, and surface water of this area in Door County.

Department staff continues to work on the comprehensive sanitary survey. A total of 407 properties, served by private sewage systems, were inspected in 2005. Of this total, 346 (85%) were passing systems and 61 (15%) were failing. This sanitary survey is an on-going project and will continue for many years to come. Each section in Door County has been designated a priority number based on several environmental factors.

Follow-up inspections are being done on steel treatment tanks. As these steel tanks reach their life expectancy, they will develop pencil-sized holes along the body of the tank. These small holes can be difficult to find because of residual plugging by solids and scum layers of effluent. A confined space camera is used by our staff to locate these leaks, along with probing the top of the tank with a tile probe to check the steel's integrity. If a leaking tank is found, the property owner is issued orders to replace it with a new code compliant tank.

The upgrade at time of sale or conveyance of property ownership continued to provide for the identification and replacement of existing failing POWTS. A total of 434 properties were evaluated by this ordinance requirement in 2005. Of this total, 345 (79%) were passing and 89 (21%) were failing systems. This program involves the work of real estate agents, attorneys, plumbers, soil testers, and property owners. For the past 19 years this program has been instrumental in the replacement of failing private sewage systems. A number of surrounding counties in Wisconsin has recently adopted a similar ordinance.

In 2005, the Door County Sanitarian's Department was given recognition in a publication for its work over the years in the private on-site waste regulatory activities of Wisconsin's program. The time of sale/conveyance ordinance and sanitary survey programs were given special publicity.

The Door County Sanitarian's Department would again like to extend our thanks to the members of the Board of Health and County Board of Supervisors for their continued support of environmental health programs administered and enforced by this department.

The following is statistical data for the past year in review.

Permit Totals for 2005

Permits Issued January 1, 2005 thru December 31, 2005

Permit issuance's defined by use:

	<u>2004</u>	<u>2005</u>
Single family	542	554
Commercial Uses: Restaurant	4	0
Condominiums	6	8
Outdoor Rec. Facilities	2	1
Campground	2	1
Office Facilities	3	3
County Parks	1	3
Commercial Facilities	4	7
Mobile Home Park	2	2

Systems:

	<u>2004</u>		<u>2005</u>	
	New	Replacement	New	Replacement
Non-Pressured In-Ground	89	65	66	66
Pressure In-Ground	5	8	2	7
At-Grade	11	8	8	12
Mound	104	85	99	113
Holding Tank	13	60	15	60
Aerobic Treatment Unit	4	1	3	3
Sand Filter	0	0	0	0
Single Pass Sand Filter	0	0	0	0
Recirculating Sand Filter	1	0	0	0
Replacement SepticTank	32			31
Reconnections	40			41
Vault Privies	1			3
Composting Toilets	4			1
Repairs	1			5
Renewals	11			6
Transfers	30			38

System Installation Totals

System Installations from January 1 thru December 3, 2005
(By Category)

<u>Systems:</u>	<u>2004</u>		<u>2005</u>	
	New	Replacement	New	Replacement
Non-Pressurized In-Ground	93	69	72	59
Pressured In-Ground	2	10	1	6
At-Grade	8	10	12	16
Mound	112	89	102	115
Holding Tank	12	43	16	65
Aerobic Treatment Unit	1	0	4	0
Recirculating Sand Filter	1	0	0	0
Replacement Septic Tank		29		30
Replacement Dose Tank		13		17
Reconnections		25		27
Vault Privy		4		1

County Filing

	<u>2004</u>	<u>2005</u>
Soil test reports filed	569	528
Soil tests verified in field	569	528

Actual On-site Construction Inspections

	<u>2004</u>	<u>2005</u>
New	408	372
Replacement	389	458
Failing	77	*69
Repaired/Altered	9	6
Other	324	347

(*Excludes sanitary surveys)

SYSTEM INSTALLATIONS FOR 2004

	Non-Pressurized In-Ground		Pressurized In-Ground		Mound	At-Grade	Holding Tanks	Aerobic Treatment Unit	Sand Filter	Single Pass Sand Filter	Recirculating Sand Filter	Constructed Wetland	Drip-Line Dispersal	Repl. Septic Tanks Only	Reconnections
	New	Rep	New	Rep	New	Rep	New	Rep	New	Rep	New	Rep	New	Rep	
Townships:															
Baileys Harbor	5	2	0	0	10	3	0	0	0	0	0	0	0	0	1
Brussels	4	0	0	0	8	9	2	0	0	0	0	0	0	3	1
Clay Banks	2	2	0	0	2	2	0	1	0	0	0	0	0	0	0
Egg Harbor	13	3	0	0	15	10	0	2	0	1	1	0	0	5	2
Forestville	4	1	0	0	6	3	1	0	0	0	0	0	0	0	3
Gardner	0	1	0	1	10	7	1	3	3	11	0	0	0	0	2
Gibraltar	8	2	0	0	6	6	0	0	1	0	0	0	0	3	1
Jacksonport	3	1	0	0	3	3	2	0	1	9	0	0	0	1	2
Liberty Grove	21	7	2	3	11	6	0	0	11	6	0	0	0	10	1
Nasewaupsee	5	4	0	2	15	15	0	0	1	5	0	0	0	2	2
Sevastopol	15	20	0	0	11	8	0	2	0	4	0	0	0	1	2
Sturgeon Bay	4	7	0	0	4	5	0	2	4	5	0	0	0	0	4
Union	3	2	0	0	3	3	1	0	3	3	0	0	0	0	2
Washington	5	16	0	3	4	8	1	0	4	8	0	0	1	3	2
Villages:															
Egg Harbor	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
Ephraim	1	0	0	0	2	0	0	0	2	0	0	0	0	3	0
Forestville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sister Bay	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
City:															
Sturgeon Bay	0	2	0	1	1	0	0	0	1	0	0	0	0	0	0

SYSTEM INSTALLATIONS FOR 2005

	Non-Pressurized In-Ground		Pressurized In-Ground		Mound	At-Grade	Holding Tanks	Aerobic Treatment Unit	Sand Filter	Single Pass Sand Filter	Recirculating Sand Filter	Constructed Wetland	Drip-Line Dispersal	Repl. Septic Tanks Only	Reconnections	
	New	Rep	New	Rep												New
Townships:																
Baileys Harbor	5	1	0	0	10	6	1	0	0	3	0	1	0	0	2	1
Brussels	1	4	0	0	1	6	1	2	0	1	0	0	0	0	0	1
Clay Banks	0	1	0	0	0	4	1	0	0	0	0	0	0	0	0	0
Egg Harbor	5	6	1	0	21	7	2	0	1	0	2	0	0	0	1	3
Forestville	2	2	0	1	5	4	0	0	0	0	0	0	0	0	1	2
Gardner	3	2	0	1	11	4	1	3	2	7	0	0	0	0	0	2
Gibraltar	15	5	0	0	9	11	2	0	0	0	1	1	0	0	5	3
Jacksonport	1	5	0	0	4	5	0	0	2	3	1	0	0	0	2	1
Liberty Grove	6	6	0	2	9	14	1	0	1	12	2	0	0	0	13	4
Nasewaupee	8	4	0	0	19	23	0	2	2	20	1	3	0	0	2	6
Sevastopol	14	10	0	1	15	12	0	3	2	8	0	0	0	0	2	1
Sturgeon Bay	1	6	0	0	0	4	1	0	1	3	0	0	1	0	1	2
Union	2	0	0	0	2	4	0	1	1	4	0	0	0	0	0	1
Washington	6	7	0	1	1	2	1	5	1	0	0	0	0	0	1	0
Villages:																
Egg Harbor	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Ephraim	0	0	0	0	3	2	0	0	0	2	1	0	0	0	2	0
Forestville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sister Bay	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
City:																
Sturgeon Bay	1	0	0	0	0	1	1	0	2	2	0	0	0	0	1	0

Door County Code 21.03(1)(a)2 Inspections for 2005

Upgrade of Existing Failing Waste Disposal Systems at Time of Sale, Transfer or
Conveyance of Property Ownership

	<u>Passing</u>	<u>Failing</u>	<u>Total</u>
January	11	0	11
February	10	2	12
March	13	6	19
April	22	19	41
May	38	4	42
June	42	11	53
July	36	9	45
August	40	16	56
September	50	5	55
October	27	7	34
November	25	5	30
December	31	5	36
Totals	345	89	434

Door County Code 21.03(1)(a)2 **Evaluation Results to Date**

<u>Year</u>	<u>Total</u> <u>Submitted</u>	<u>Systems</u> <u>Passing</u>	<u>Systems</u> <u>Failing</u>
*1986	183	100	83
1987	374	153	221
1988	289	132	157
1989	278	150	128
1990	293	162	131
1991	367	215	152
1992	393	259	134
1993	355	213	142
1994	383	236	147
1995	318	216	102
1996	342	234	108
1997	342	262	80
1998	310	225	85
1999	411	317	94
2000	367	303	64
2001	365	292	73
2002	345	283	62
2003	361	313	48
2004	411	325	86
2005	434	345	89
Totals	6,921	4,735	2,186

*Figures reflect partial year – June 26 thru December 31, 1986
(DCC 21.15 became effective on June 26, 1986.)

Animal Bite Investigations

	<u>Total</u>	<u>Unvaccinated</u>	<u>Vaccinated</u>
January	5	1	4
February	3	1	2
March	5	2	3
April	6	1	5
May	4	3	1
June	14	7	7
July	7	1	6
August	14	7	7
September	8	2	6
October	7	1	6
November	6	1	5
December	7	1	6
2005 Totals	86	28	58
2004 Totals	96	41	55

Miscellaneous Activities

	<u>2004</u>	<u>2005</u>
Privy complaints	3	5
POWTS abandonment	14	31
Sanitary survey	521	407
Human health hazard	3	2
Sewage related complaints	12	3
Garbage complaint	7	1
Odor investigation	2	0
Dog waste complaint	1	0
City mobile home park inspections	4	4
Mold inspection	11	3
Dead animals	2	1
Nuisance investigations	3	2
Abandoned motor vehicles	1	1
Install of POWTS w/o permit	2	0
No portable toilet on job construction site	0	2

Citation Issuance

	<u>2004</u>	<u>2005</u>
Failure to replace existing failing system within one year of property transfer	4	13
Failure to have septic tank pumped and/or inspected and failed to submit report to Sanitarian	28	41
Installation of a POWTS without obtaining required sanitary permit	1	0
Discharge of effluent to the ground surface	1	0
Failure to replace failing POWTS within one year of order date	15	7
Failure to abandon existing privy	1	0
Failure to abate nuisance	3	0
Failure to maintain a service contract with a hauler	0	2
Discharge of wastewater to bedrock from residence	0	1

Water Sample Kits Distributed to General Public

177 Kits in 2004

Starting in 2005 we no longer track distribution to public due to lab change

Water Sampling

Water samples collected for private or public establishments

17 in 2004

7 in 2005

Department Revenue

Sanitary Permit Fees:

	<u>2004</u>	<u>2005</u>
Total fees collected	\$169,690	\$169,205
Total of fees collected due state	<u>36,450</u>	<u>36,375</u>
Total income to Door County	\$133,240	\$132,830

Monetary Penalties:

(Citations/Litigation)	\$ 2,468.26	\$ 2,495.50
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<u>Holding Tank Plan Review Fees:</u>	\$ 3,360	\$ 3,720
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<u>Sanitary Evaluation Fees:</u>	\$ 3,150	\$ 11
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Wisconsin Fund Grant Program

The Door County Sanitarian's Office assists eligible property owners each year in making application to the Department of Commerce-Safety & Buildings Division in Madison for grants to assist the owner in rehabilitating or replacing a failing private sewage disposal system.

Awards granted to 2004 applicants - \$134,464

Awards granted to 2005 applicants - \$130,574